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OPTICAL TRACKING DEVICE FOR COMPUTERS

ABSTRACT OF THE DISCLOSURE

An optic tracking device includes a movable body having a bottom The bottom of the body defines a cavity for movably supported on a pad. accommodating an optic sensor comprised of a number of photo transistors encased in a transparent casing. A light emitting element is mounted in the body to project light to the pad at a position substantially below the The light is reflected by the pad and detected by the optic optic sensor. The pad forms a number of light reflective zones spaced from sensor. each other and surrounded by a light absorbing area whereby when the body is moved on the pad, light reflected from the pad and detected by the optic sensor changes with the movement of the body that alternately passes through the light reflective zones and different portions of the light The optic sensor converts the light reflected from the pad absorbing area. into an electrical signal, which is processed by a signal processing circuit to generate data corresponding to moving speed and direction of the body.